

# Service Hints

## Plasma Television



<PDP 2007 Models>

TH-65/58/50PZ750U

TH-58/50/42PZ700U

TH-50/42PZ77U

TH-50/42PX77U

TH-50/42PX75U

- Ver 1.0-

## Troubleshooting Guide

This service hint is published for technicians and engineers for repair. And it gives you the information how to judge the defective board of PDP.

In the future, we will improve the contents for more easy diagnostic and trouble shooting.

Please file and use this Service Hints together with the main service manual and other publications related to models.






### **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

<b>1. 2007 PDP Line up &amp; Feature Comparison</b>	<b>P3</b>
<b>2. PCB Location &amp; Function</b>	<b>P5</b>
<b>3. PCB List</b>	<b>P11</b>
<b>4. Block Diagram</b>	<b>P13</b>
<b>5. Troubleshooting</b>	<b>P15</b>
<b>6. Appendix</b>	<b>P21</b>

# **1. 2007 PDP Line up & Feature Comparison**

## 1. 2007 PDP Line up & Feature Comparison

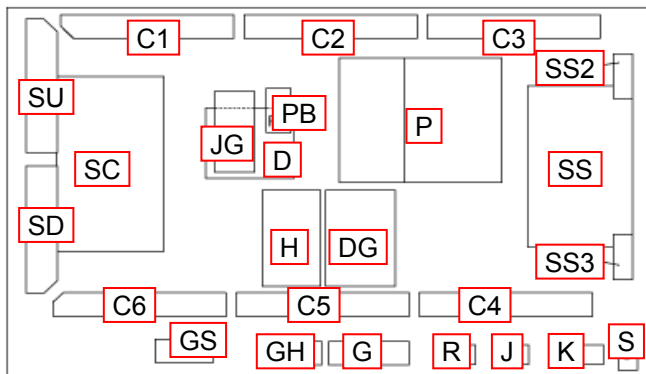
Model  Description		PZ750 Series	PZ700 Series	PZ77 Series	PX77 Series	PX75 Series
						
Picture	Size	65/58/50	58/50/42	50/42	50/42	50/42
	Panel	1080p HD	1080p HD	1080p HD	HD	HD
	Gradation	4,096	4,096	4,096	3072	3072
	Contrast Ratio	10,000:1(65") 5,000:1(58",50")	5,000:1	10,000:1	10,000:1	10,000:1
	Digital Optimizer	Y	Y	Y	Y	Y
	Studio Ref Mode	Y	--	--	--	--
	Advanced 3D Color Management	Y	Y	Y	Y	Y
	Motion Pattern Noise Reduction	Y	Y	Y	Y	Y
	Sub-Pixel Controller	Y	Y	Y	Y	Y
Sound	Speaker	Advanced Smart Sound Speaker (Side)	Advanced Smart Sound Speaker (Side)	Bottom Speaker	Bottom Speaker	Bottom Speaker
	BBE VIVA	Y	Y	--	--	--
Networking	HDMI	3	2	2	2	2
	EZ Sync (HDMI Control 2)	Y	Y	Y	Y	Y
	SDHC Card Slot	Y (AVCHD/MPEG2 /JPEG*)	Y (JPEG*)	Y (JPEG*)	Y (JPEG*)	Y (JPEG*)
	PC Input	Y	Y	--	--	--

\* 4GB SDHC Card complies with HD-JPEG.



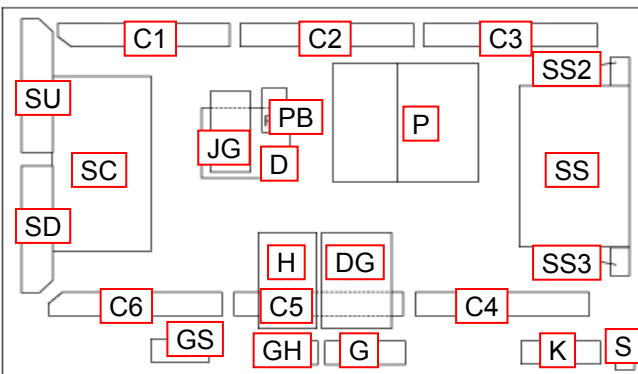
## **2. PCB Location & Function**

### TH-65PZ750



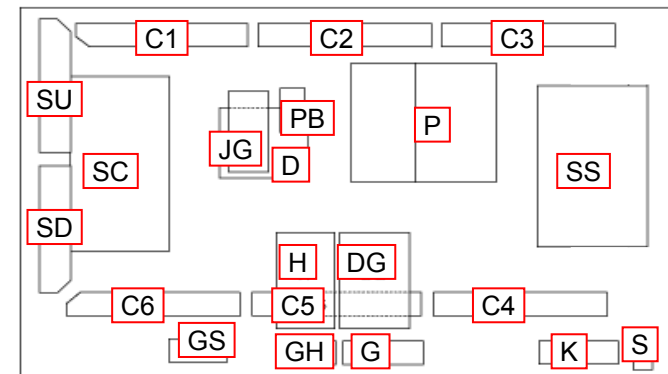
Board	Function
P	Power Supply
PB	Fan control
H	Speaker Out, Sound Processor, AV terminal, AV Switch
DG	DC-DC Converter, Digital Signal Processor
JG	H264 Decoder
G	Front terminal, Key SW
K	Power LED, AI Sensor
S	Power SW
GS	SD Card Slot
GH	HDMI 3 in
J	Interface
D	Format Converter, Plasma AI, Sub-Field Processor
C1	Data Driver (Upper Right)
C2	Data Driver (Upper Center)
C3	Data Driver (Upper Left)
C4	Data Driver (Lower Left)
C5	Data Driver (Lower Center)
C6	Data Driver (Lower Right)
SC	Scan Drive
SU	Scan Out (Upper)
SD	Scan Out (Lower)
SS	Sustain Drive
SS2	Sustain Connector (Upper)
SS3	Sustain Connector (Lower)
R	Remote Receiver

### TH-58PZ750



Board	Function
P	Power Supply
PB	Fan control
H	Speaker Out, Sound Processor, AV terminal, AV Switch
DG	DC-DC Converter, Digital Signal Processor
JG	H264 Decoder
G	Front terminal, Key SW
K	Power LED, Remote Receiver
S	Power SW
GS	SD Card Slot
GH	HDMI 3 in
D	Format Converter, Plasma AI, Sub-Field Processor
C1	Data Driver (Upper Right)
C2	Data Driver (Upper Center)
C3	Data Driver (Upper Left)
C4	Data Driver (Lower Left)
C5	Data Driver (Lower Center)
C6	Data Driver (Lower Right)
SC	Scan Drive
SU	Scan Out (Upper)
SD	Scan Out (Lower)
SS	Sustain Drive
SS2	Sustain Connector (Upper)
SS3	Sustain Connector (Lower)

### TH-50PZ750

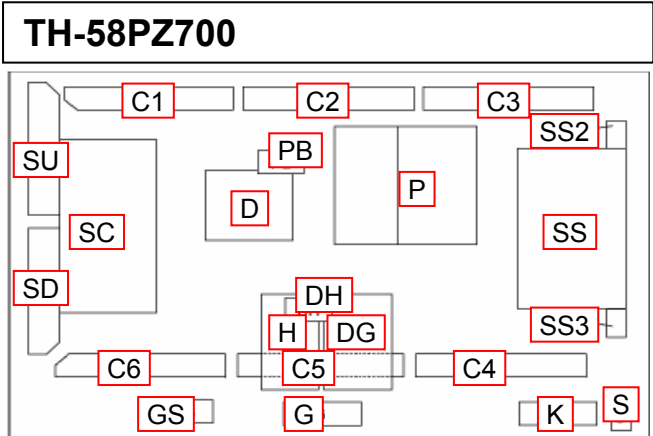


Board	Function
P	Power Supply
PB	Fan control
H	Speaker Out, Sound Processor, AV terminal, AV Switch
DG	DC-DC Converter, Digital Signal Processor
JG	H264 Decoder
G	Front terminal, Key SW
K	Power LED, Remote Receiver
S	Power SW
GS	SD Card Slot
GH	HDMI 3 in
D	Format Converter, Plasma AI, Sub-Field Processor
C1	Data Driver (Upper Right)
C2	Data Driver (Upper Center)
C3	Data Driver (Upper Left)
C4	Data Driver (Lower Left)
C5	Data Driver (Lower Center)
C6	Data Driver (Lower Right)
SC	Scan Drive
SU	Scan Out (Upper)
SD	Scan Out (Lower)
SS	Sustain Drive

2. PCB Location & Function	PZ700 Series
----------------------------	--------------

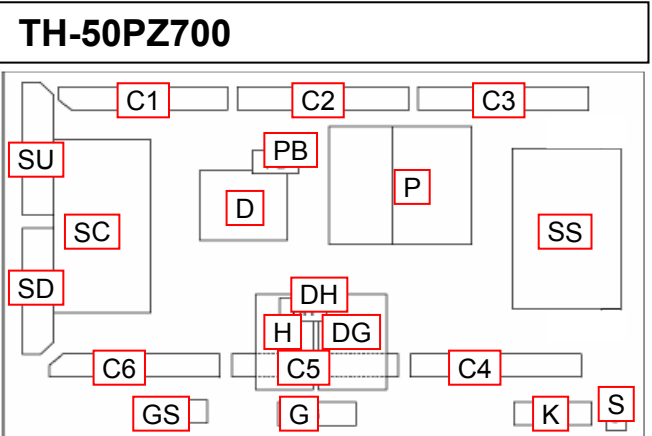
2. PCB Location & Function	PZ700 Series
----------------------------	--------------

TH-58PZ700



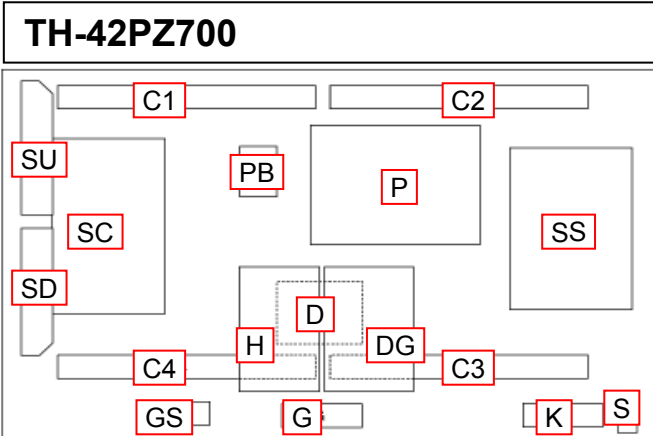
Board	Function
P	Power Supply
PB	Fan control
H	Speaker out, Sound Processor, AV Terminal, AV Switch
DG	DC-DC Converter Digital Signal Processor, Microcomputer
DH	Full HD
G	Front terminal, Key Switch
K	Remote receiver, Power LED
S	Power Switch
GS	SD Card Slot
D	Format Converter, Plasma AI, Sub-Field Processor
C1	Data Driver (Upper Right)
C2	Data Driver (Upper Center)
C3	Data Driver (Upper Left)
C4	Data Driver (Lower Left)
C5	Data Driver (Lower Center)
C6	Data Driver (Lower Right)
SC	Scan Drive
SU	Scan out (Upper)
SD	Scan out (Lower)
SS	Sustain Drive
SS2	Sustain Connector (Upper)
SS3	Sustain Connector (Lower)

TH-50PZ700

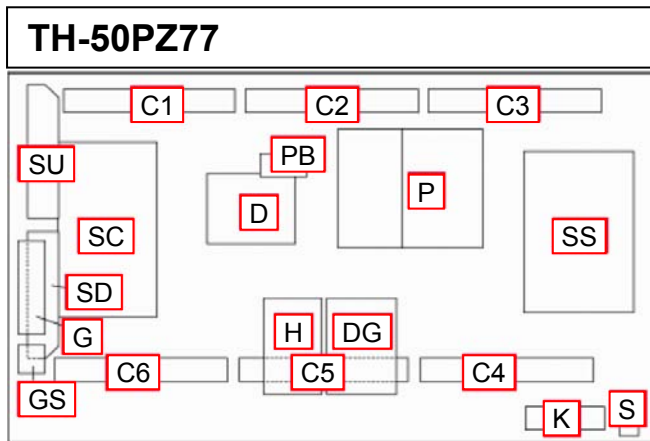


Board	Function
P	Power Supply
PB	Fan control
H	Speaker out, Sound Processor, AV Terminal, AV Switch
DG	DC-DC Converter, Digital Signal Processor, Microcomputer
DH	Full HD
G	Front terminal, Key Switch
K	Remote receiver, Power LED
S	Power Switch
GS	SD Card Slot
D	Format Converter, Plasma AI, Sub-Field Processor
C1	Data Driver (Upper Right)
C2	Data Driver (Upper Center)
C3	Data Driver (Upper Left)
C4	Data Driver (Lower Left)
C5	Data Driver (Lower Center)
C6	Data Driver (Lower Right)
SC	Scan Drive
SU	Scan out (Upper)
SD	Scan out (Lower)
SS	Sustain Drive

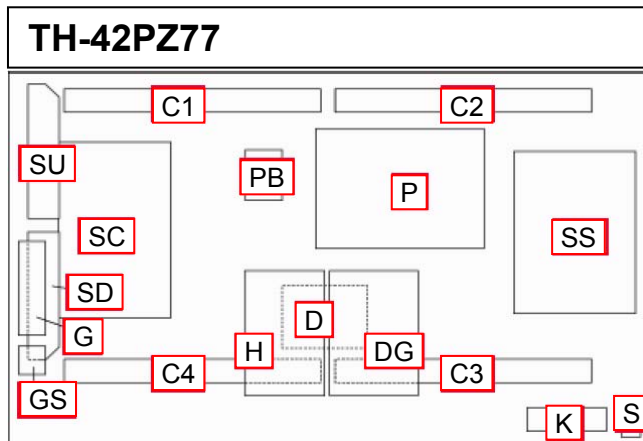
TH-42PZ700
------------



Board	Function
P	Power Supply
PB	Fan control
H	Speaker out, Sound Processor, AV Terminal, AV Switch
DG	DC-DC Converter, Digital Signal Processor, Microcomputer
G	Front terminal, Key Switch
K	Remote receiver, Power LED
S	Power Switch
GS	SD Card Slot
D	Format Converter, Plasma AI, Sub-Field Processor
C1	Data Driver (Upper Right)
C2	Data Driver (Upper Left)
C3	Data Driver (Lower Left)
C4	Data Driver (Lower Right)
SC	Scan Drive
SU	Scan out (Upper)
SD	Scan out (Lower)
SS	Sustain Drive

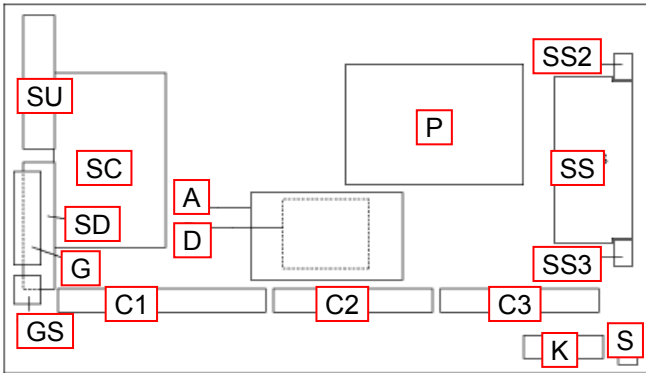


Board	Function
P	Power Supply
PB	Fan control
H	Speaker out, Sound Processor, AV Terminal, AV Switch
DG	DC-DC Converter, Digital Signal Processor, Microcomputer
G	Front terminal, Key Switch
K	Remote receiver, Power LED
S	Power Switch
GS	SD Card Slot
D	Format Converter, Plasma AI, Sub-Field Processor
C1	Data Driver (Upper Right)
C2	Data Driver (Upper Center)
C3	Data Driver (Upper Left)
C4	Data Driver (Lower Left)
C5	Data Driver (Lower Center)
C6	Data Driver (Lower Right)
SC	Scan Drive
SU	Scan out (Upper)
SD	Scan out (Lower)
SS	Sustain Drive



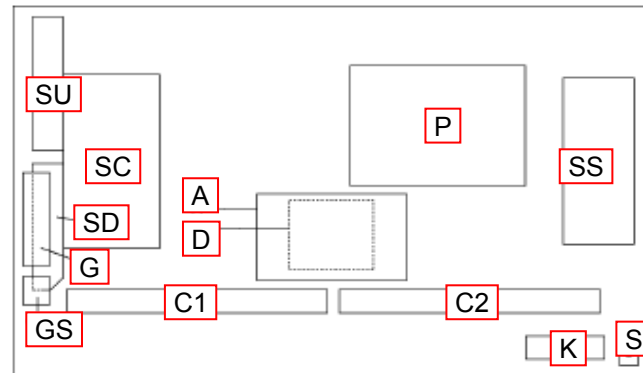
Board	Function
P	Power Supply
PB	Fan control
H	Speaker out, Sound Processor, AV Terminal, AV Switch
DG	DC-DC Converter, Digital Signal Processor, Microcomputer
G	Front terminal, Key Switch
K	Remote receiver, Power LED
S	Power Switch
GS	SD Card Slot
D	Format Converter, Plasma AI, Sub-Field Processor
C1	Data Driver (Upper Right)
C2	Data Driver (Upper Left)
C3	Data Driver (Lower Left)
C4	Data Driver (Lower Right)
SC	Scan Drive
SU	Scan out (Upper)
SD	Scan out (Lower)
SS	Sustain Drive

### TH-50PX77



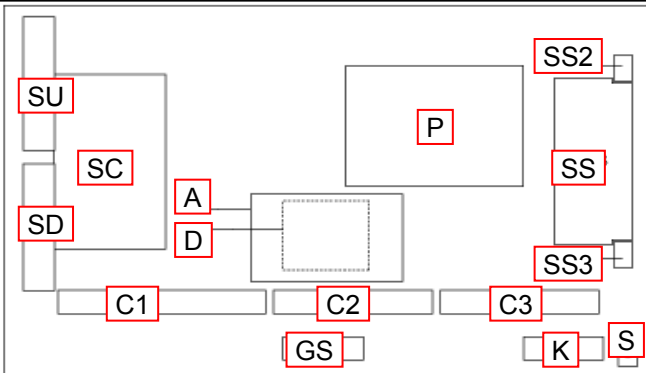
Board	Function
P	Power Supply
A	DC-DC Converter, Speaker out, Sound Processor, AV Terminal, AV Switch, Digital Signal Processor, Microcomputer
K	Remote receiver, Power LED
S	Power Switch
GS	SD Card Slot
G	Key Switch, Side Terminal
D	Format Converter, Plasma AI, Sub-Field Processor
C1	Data Driver (Lower Right)
C2	Data Driver (Lower Center)
C3	Data Driver (Lower Left)
SC	Scan Drive
SU	Scan out (Upper)
SD	Scan out (Lower)
SS	Sustain Drive
SS2	Sustain out (Upper)
SS3	Sustain out (Lower)

### TH-42PX77



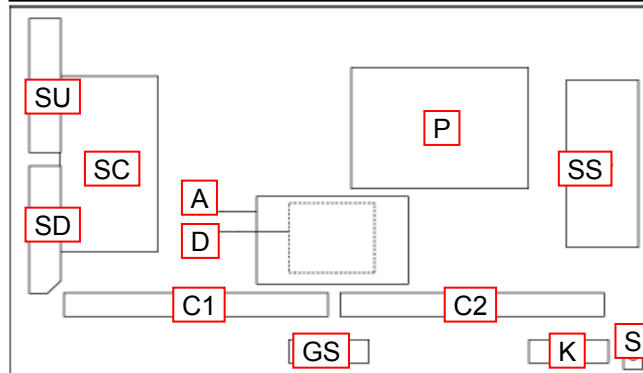
Board	Function
P	Power Supply
A	DC-DC Converter, Speaker out, Sound Processor, AV Terminal, AV Switch, Digital Signal Processor, Microcomputer
K	Remote receiver, Power LED
S	Power Switch
D	Format Converter, Plasma AI, Sub-Field Processor
C1	Data Driver (Lower Right)
C2	Data Driver (Lower Left)
SC	Scan Drive
SU	Scan out (Upper)
SD	Scan out (Lower)
SS	Sustain Drive
GS	SD Card Slot
G	Key Switch, Side Terminal

### TH-50PX75



Board	Function
P	Power Supply
A	DC-DC Converter, Speaker out, Sound Processor, AV Terminal, AV Switch, Digital Signal Processor, Microcomputer
K	Remote receiver, Power LED
S	Power Switch
GS	SD Card Slot, Key Switch
D	Format Converter, Plasma AI, Sub-Field Processor
C1	Data Driver (Lower Right)
C2	Data Driver (Lower Center)
C3	Data Driver (Lower Left)
SC	Scan Drive
SU	Scan out (Upper)
SD	Scan out (Lower)
SS	Sustain Drive
SS2	Sustain out (Upper)
SS3	Sustain out (Lower)

### TH-42PX75



Board	Function
P	Power Supply
A	DC-DC Converter, Speaker out, Sound Processor, AV Terminal, AV Switch, Digital Signal Processor, Microcomputer
K	Remote receiver, Power LED
S	Power Switch
D	Format Converter, Plasma AI, Sub-Field Processor
C1	Data Driver (Lower Right)
C2	Data Driver (Lower Left)
SC	Scan Drive
SU	Scan out (Upper)
SD	Scan out (Lower)
SS	Sustain Drive
GS	SD Card Slot, Key Switch

### **3. PCB List**

### 3. PCB List

Board	TH-65PZ750	TH-58PZ750	TH-50PZ750	TH-58PX700	TH-50PZ700	TH-42PZ700	TH-50PZ77	TH-42PZ77	TH-50PX77	TH-42PX77	TH-50PX75	TH-42PX75
P	ETXMM631MGHS	ETXMM625AGHS	ETXMM624MGHS	ETXMM625AGHS	ETXMM624MGHS	ETX2MM681MFS	ETXMM673AGHS	ETX2MM681MFS	ETXMM655MEHS	TXN/P1HNTUS	ETXMM655MEHS	TXN/P1HNTUS
PB	TNPA4243ADS	TNPA4243ACS	TNPA4243ABS	TNPA4243ACS	TNPA4243ABS	TNPA4243AES	TNPA4243ABS	TNPA4243AES	----	----	----	----
H	TNPA4346S	TNPA4346S	TNPA4346S	TNPA4131AGS	TNPA4131AGS	TNPA4346ABS	TNPA4360S	TNPA4360S	----	----	----	----
A	----	----	----	----	----	----	----	----	TNPH0692AFS	TNPH0692AES	TNPH0692ACS	TNPH0692ABS
DG	TNPA4347AFS	TNPA4347ABS	TNPA4347S	TNPA4129ABS	TNPA4129S	TNPA4347ACS	TNPA4415ABS	TNPA4415S	----	----	----	----
DH	----	----	----	TXNDH1HHTU	TXNDH1HHTU	----	----	----	----	----	----	----
JG	TXNJG1LFTU	TXNJG1LFTU	TXNJG1LFTU	----	----	----	----	----	----	----	----	----
G	TNPA4306ABS	TNPA4306ABS	TNPA4306ABS	TNPA4306ABS	TNPA4306ABS	TNPA4306ABS	TNPA4306S	TNPA4306S	TNPA4306S	TNPA4306S	----	----
K	TNPA4418S	TNPA4236ABS	TNPA4236ABS	TNPA4236ABS	TNPA4236ABS	TNPA4236ABS	TNPA4307S	TNPA4307S	TNPA4307S	TNPA4307S	TNPA4236S	TNPA4236S
S	TNPA4237S	TNPA4237S	TNPA4237S	TNPA4237S	TNPA4237S	TNPA4237S	TNPA4237S	TNPA4237S	TNPA4237S	TNPA4237S	TNPA4237S	TNPA4237S
GS	TNPA4143ABS	TNPA4143ABS	TNPA4143ABS	TNPA4143AES	TNPA4143AES	TNPA4143AES	TNPA4308S	TNPA4308S	TNPA4308S	TNPA4308S	TNPA4280S	TNPA4280S
GH	TNPA4135ADS	TNPA4135ADS	TNPA4135ADS	----	----	----	----	----	----	----	----	----
J	TNPA4425S	----	----	----	----	----	----	----	----	----	----	----
D	TZTNP01EVTJ	TZTNP01HGTU	TZTNP01LXTU	TZTNP01HGTU	TZTNP01LXTU	TZTNP01HJTU	TNPA3983BFS	TNPA4245ADS	TZTNP01LNTU	TZTNP01LPTU	TZTNP01LNTU	TZTNP01LPTU
C1	TXNC11EVTJU	TXNC11HGTUJ	TXNC11ETTJ	TXNC11HGTUJ	TXNC11ETTJ	TXNC11HATJ	TXNC11HHTUJ	TXNC11NZTU	TXNC11HMTU	TXNC11HNTU	TXNC11HMTU	TXNC11HNTU
C2	TXNC21EVTJU	TXNC21HGTUJ	TXNC21ETTJ	TXNC21HGTUJ	TXNC21ETTJ	TXNC21HATJ	TXNC21HHTUJ	TXNC21NZTU	TXNC21HMTU	TXNC21HNTU	TXNC21HMTU	TXNC21HNTU
C3	TXNC31EVTJU	TXNC31HGTUJ	TXNC31ETTJ	TXNC31HGTUJ	TXNC31ETTJ	TXNC31HATJ	TXNC31HHTUJ	TXNC31NZTU	TXNC31HMTU	----	TXNC31HMTU	----
C4	TXNC41EVTJU	TXNC41HGTUJ	TXNC41ETTJ	TXNC41HGTUJ	TXNC41ETTJ	TXNC41HATJ	TXNC41HHTUJ	TXNC41NZTU	----	----	----	----
C5	TXNC51EVTJU	TXNC51HGTUJ	TXNC51ETTJ	TXNC51HGTUJ	TXNC51ETTJ	----	TXNC51HHTUJ	----	----	----	----	----
C6	TXNC61EVTJU	TXNC61HGTUJ	TXNC61ETTJ	TXNC61HGTUJ	TXNC61ETTJ	----	TXNC61HHTUJ	----	----	----	----	----
SC	TXNSC1EVTJU	TXNSC1HGTUJ	TXNSC1ETTJ	TXNSC1HGTUJ	TXNSC1ETTJ	TXNSC1HATJ	TXNSC1XCTU	TXNSC1NZTU	TXNSC1HMTU	TXNSC1HNTU	TXNSC1HMTU	TXNSC1HNTU
SU	TXNSU1EVTJU	TXNSU1HGTUJ	TXNSU1ETTJ	TXNSU1HGTUJ	TXNSU1ETTJ	TXNSU1HJTA	TXNSU1XCTU	TXNSU1NZTU	TXNSU1HMTU	TXNSU1HNTU	TXNSU1HMTU	TXNSU1HNTU
SD	TXNSD1EVTJU	TXNSD1HGTUJ	TXNSD1ETTJ	TXNSD1HGTUJ	TXNSD1ETTJ	TXNSD1HJTA	TXNSD1XCTU	TXNSD1NZTU	TXNSD1HMTU	TXNSD1HNTU	TXNSD1HMTU	TXNSD1HNTU
SS	TXNSS1EVTJU	TXNSS1HGTUJ	TXNSS1ETTJ	TXNSS1HGTUJ	TXNSS1ETTJ	TXNSS1HATJ	TXNSS1XCTU	TXNSS1NZTU	TXNSS1HMTUJS	TXNSS1HNTUJS	TXNSS1HMTU	TXNSS1HNTUJS
SS2	TXNSS21EVTJU	TNPA3841S	----	TNPA3841S	----	----	----	----	TNPA4202S	----	TNPA4202S	----
SS3	TXNSS31EVTJU	TNPA3842S	----	TNPA3842S	----	----	----	----	TNPA4203S	----	TNPA4203S	----
R	TXN/R1DRTU	----	----	----	----	----	----	----	----	----	----	----

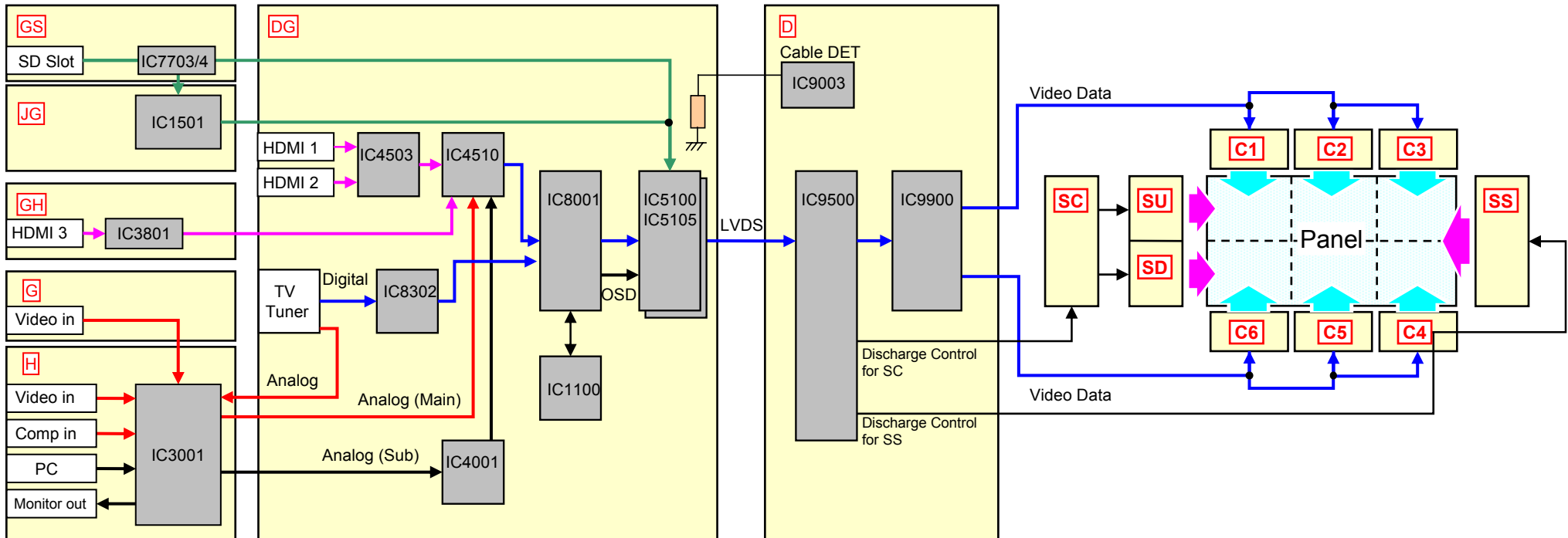


## **4. Block Diagram**

## 4. Block Diagram

## Signal Processing Circuit (TH-50PZ750)

### <PCB Function>



#### IC7703/4 (GS Board)

: Switch IC

#### IC1501 (JG Board)

: Peaks PRO IC

#### IC3801 (GH Board)

: HDMI EQ

#### IC3001 (H Board)

: Video Switch

#### IC4503 (DG Board)

: Switch IC

#### IC4510 (DG Board)

: HDMI/ IF, A/D IC

#### IC8302 (DG Board)

: Front End Processor IC

#### IC4001 (DG Board)

: GC3FS (Video Processing for Sub Window)

#### IC8001 (DG Board)

: Peaks Lite2 (Digital Video Processor)

#### IC5100 (DG Board)

: Video Processor IC (Format Converter)

#### IC5105 (DG Board)

: LVDS Transmitter

#### IC1100 (DG Board)

: Micom

#### IC9500 (D Board)

: FPGA (LVDS Receiver, Discharge Control)

#### IC9900 (D Board)

: PD1-M (Sub Field Processor, Data Driver Processor)

#### IC9003 (D Board)

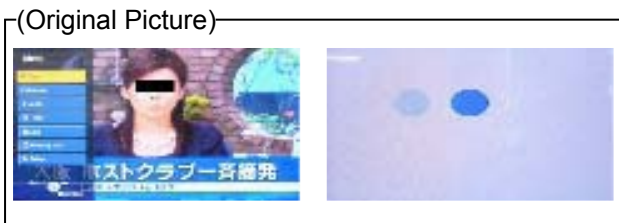
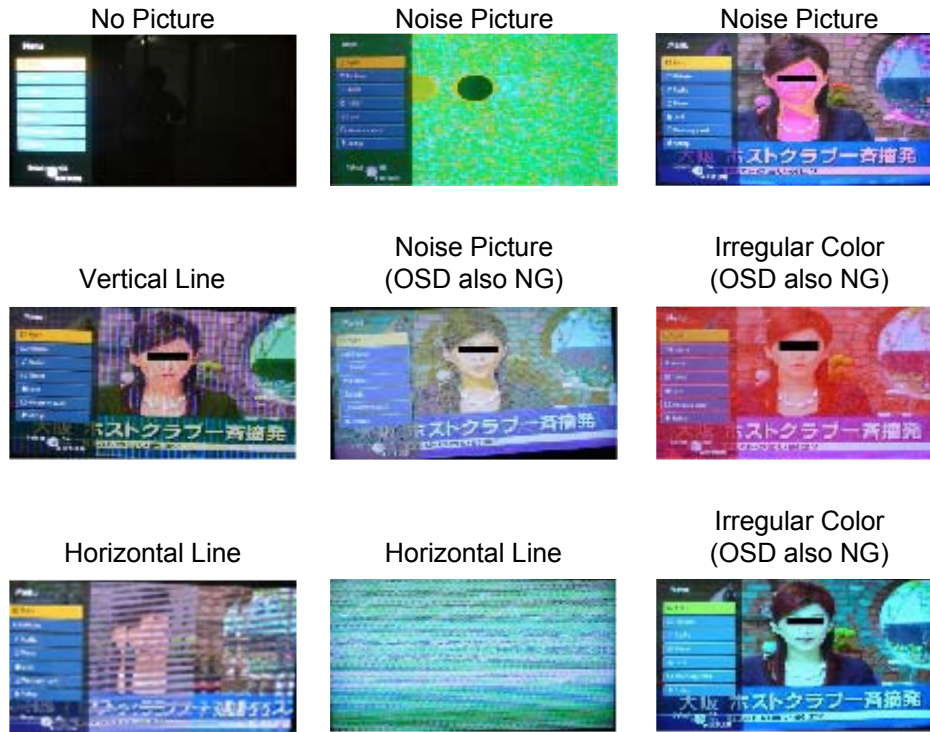
: Micom

## **5. Troubleshooting**

<Symptom>

### Abnormal Picture (All over the screen)

<Trouble Picture Example>



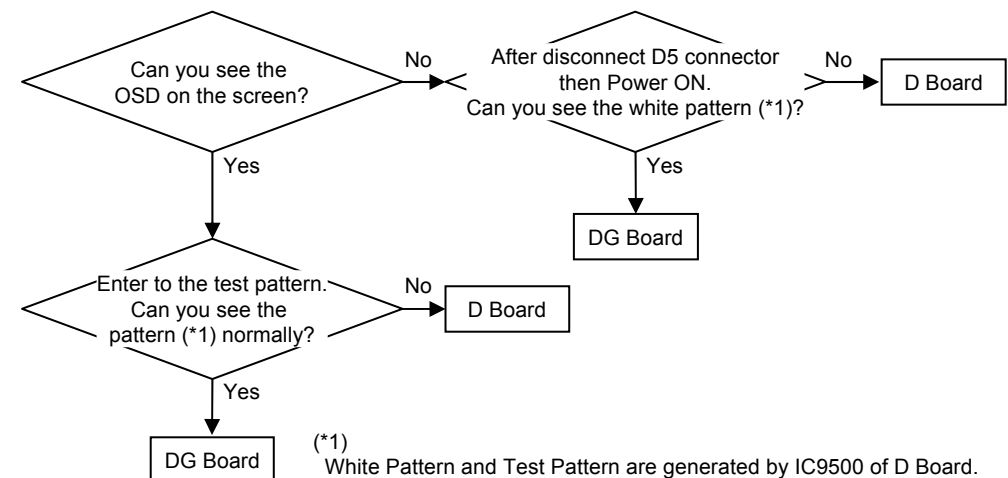
<Caused Possibility>

DG, D Board

<Diagnosis Procedure>

1. Disconnect D5 connector
2. Enter to the Test pattern

<Counter Measure>



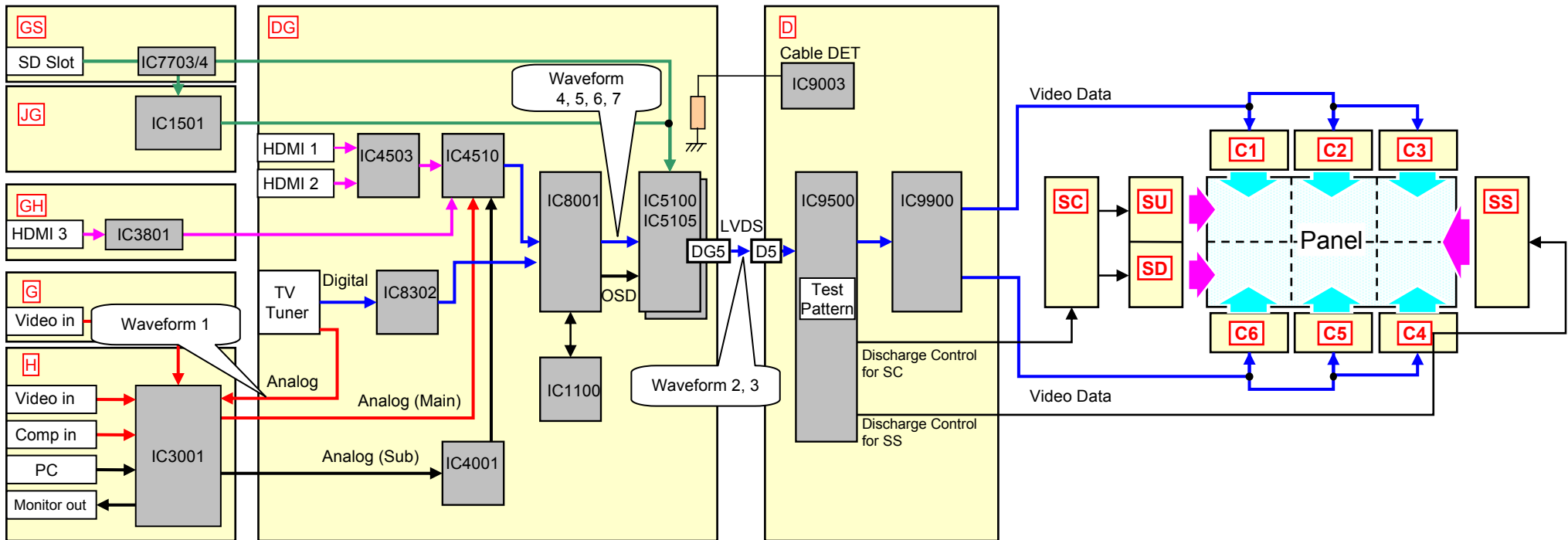
(\*1)

White Pattern and Test Pattern are generated by IC9500 of D Board. When these patterns are normally displayed on the screen, It can be seem good processing circuit between the D board and panel drive circuit.

Notice:

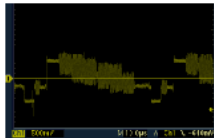
Regarding information for test pattern in detail, Please refer to Page 22, 23.

### <Block Diagram>



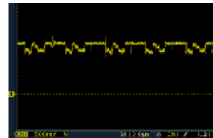
### <Reference>

Waveform 1



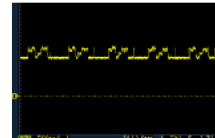
Video Signal  
(Check at C4552)

Waveform 2



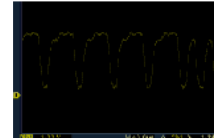
LVDS Signal  
(Check at FL5015)

Waveform 3



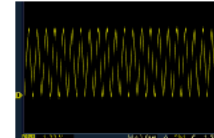
LVDS Signal  
(Check at FL5015)

Waveform 4



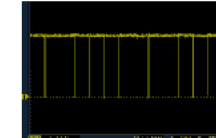
U Signal  
(Check at R4639)

Waveform 5



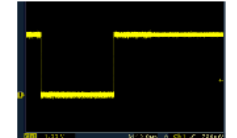
Clock Signal  
(Check at R4636)

Waveform 6



Clock Signal  
(Check at R4646)

Waveform 7



Clock Signal  
(Check at R4645)

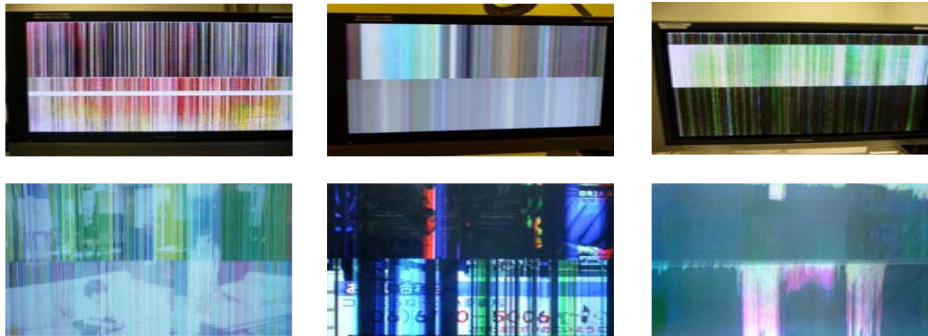
#### Notice:

If you can measure the above waveforms by oscilloscope, you can identify which DG board is good or not.

<Symptom>

### Electronic Abnormal Discharge Picture (All over the screen)

<Trouble Picture Example>



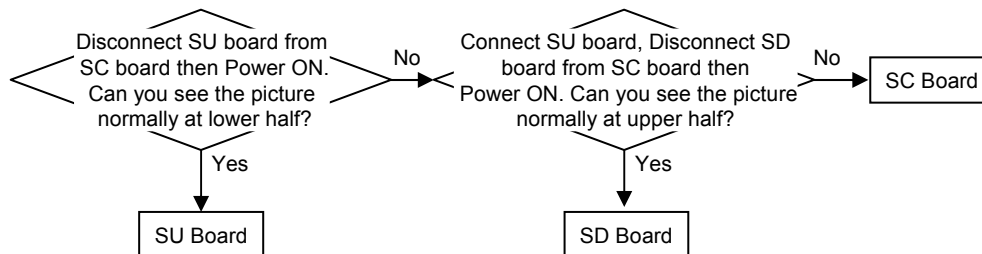
<Caused Possibility>

SC, SU, SD Board

<Diagnosis Procedure>

Disconnect SU or SD Board

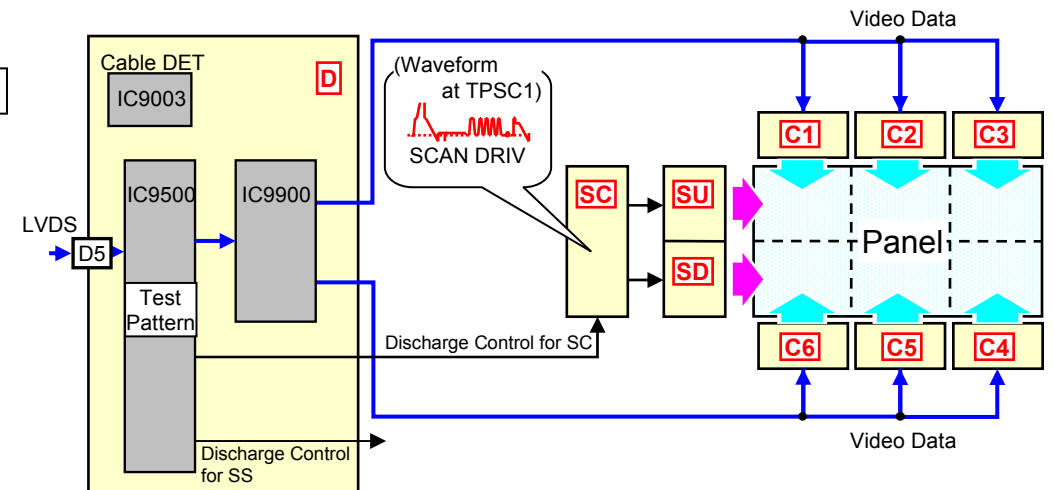
<Counter Measure>



Notice:  
You can also diagnose which board is wrong by measuring waveform at TPSC1.  
Diagnosis procedure is as follows.

Situation	Condition	Cause
Disconnect <b>SU Board</b> (Connect SD)	Waveform <b>OK</b>	<b>SU Board</b>
Disconnect <b>SD Board</b> (Connect SU)	Waveform <b>OK</b>	<b>SD Board</b>
Disconnect <b>Both Boards</b>	Waveform <b>OK</b>	<b>SC Board</b> (D Board)

<Block Diagram>



<Symptom>

Abnormal Picture, Vertical Line (Corner Area, Some part of the screen)

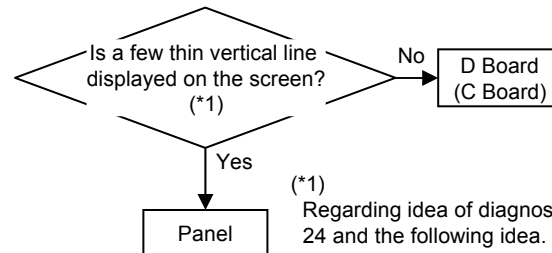
<Trouble Picture Example>



<Caused Possibility>

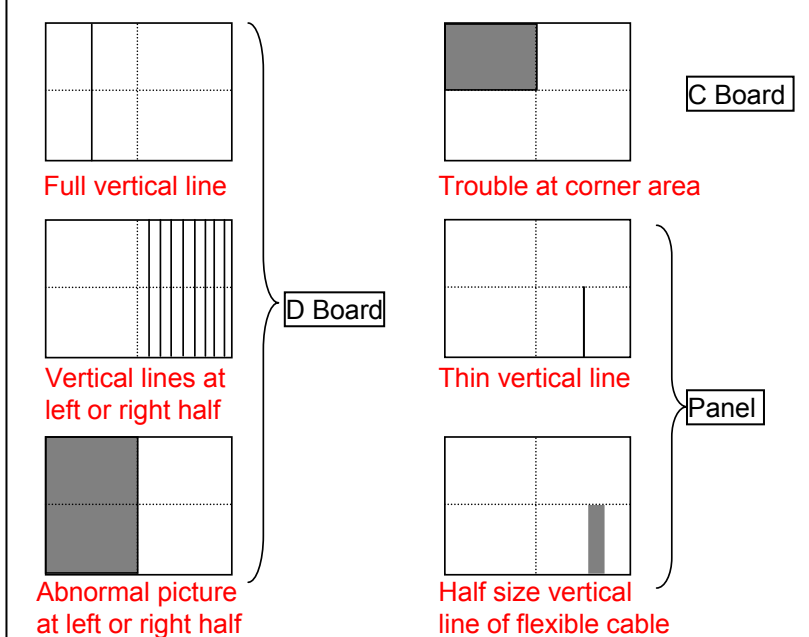
D, C Board, Plasma Panel

<Counter Measure>

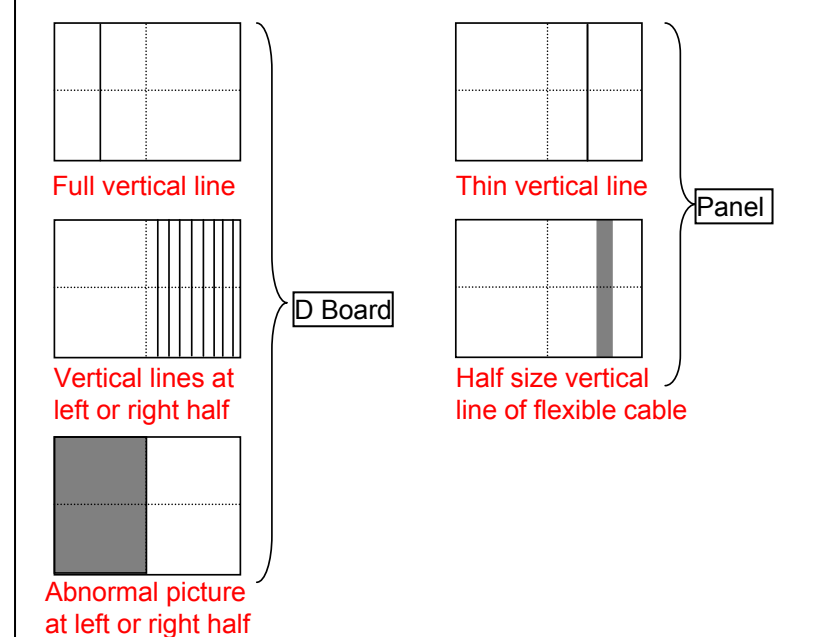


<Idea of diagnosis>

(Dual Scan Drive e.g. 42 inch)



(Single Scan Drive e.g. 42 inch)



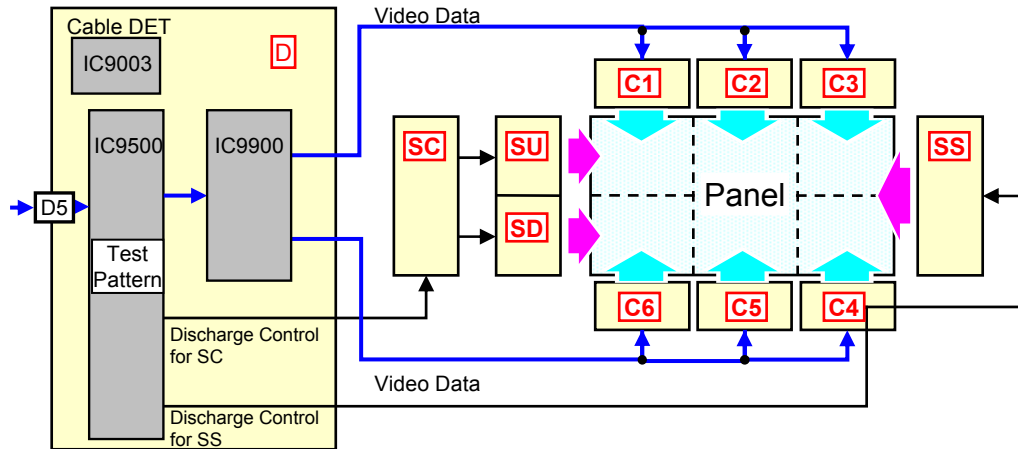
## 5. Troubleshooting

## Picture Problem (3-2)

### <Block Diagram>

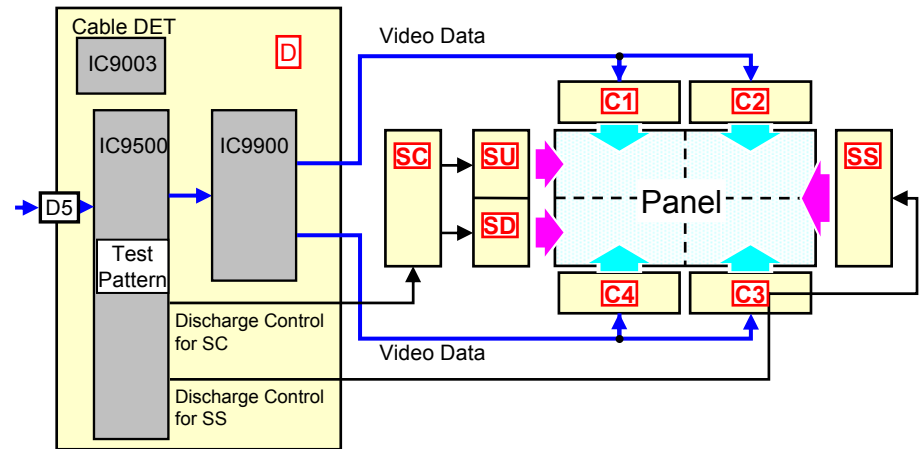
**Model No:** TH-65/ 58/ 50PZ750, TH-58/ 50PZ700, TH-50PZ77

**Panel Type:** 1080p resolution panel **Scan System:** Dual Scan Drive



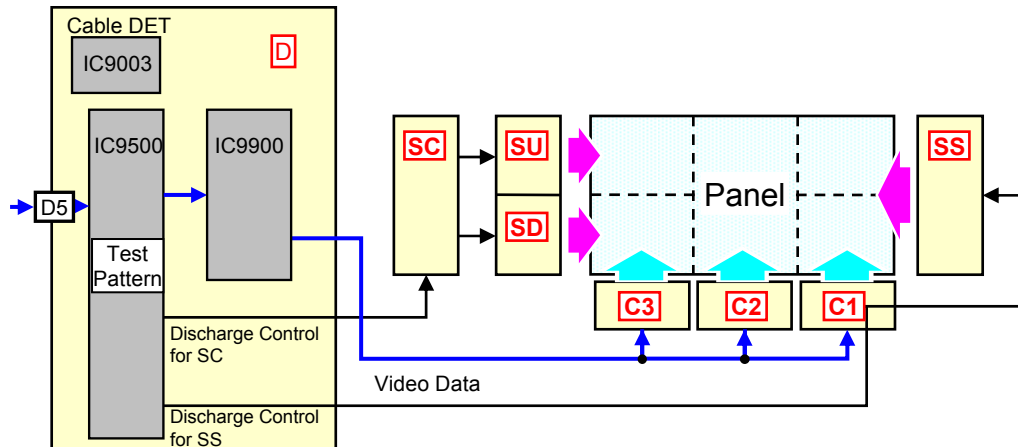
**Model No:** TH-42PZ700, TH-42PZ77

**Panel Type:** 1080p resolution panel **Scan System:** Dual Scan Drive



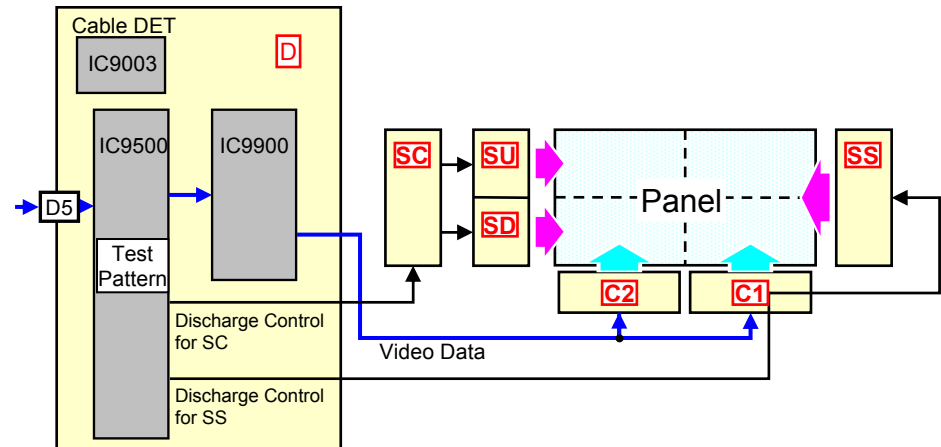
**Model No:** TH-50PX77, TH-50PX75

**Panel Type:** HD Panel **Scan System:** Single Scan Drive



**Model No:** TH-42PX77, TH-42PX75

**Panel Type:** HD Panel **Scan System:** Single Scan Drive





## **6. Appendix**

## &lt;Purpose&gt;

In case of PDP, the picture problem at all over the screen (Picture Noise, Full Vertical Line) is mainly caused by D or DG (A) board defective. This Test Pattern is able to diagnose D or DG (A) board. Because, D board had Test Pattern. So, we can judge by using Test Pattern which is defective. Regarding diagnosis for these board, please confirm as follows.

## &lt;Model&gt;

All Models

## &lt;Symptom&gt;

Picture Noise, Full Vertical Line

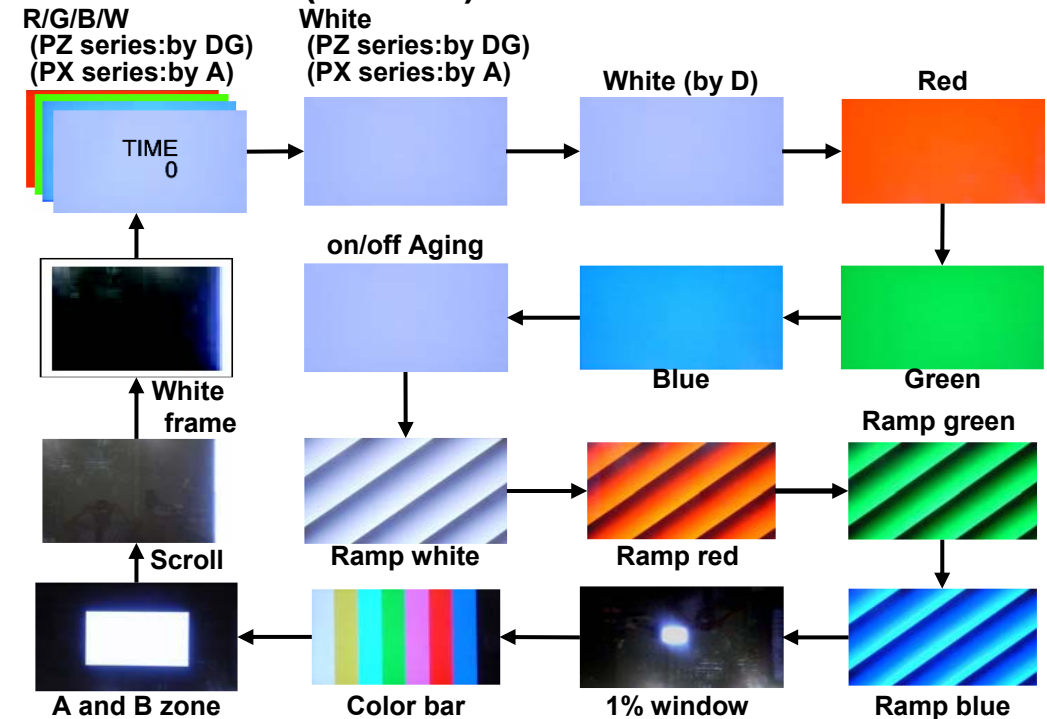
## &lt;Diagnosis&gt;

Pattern	Defective Board	
Abnormal	D Board	
Normal	DG Board (or D board)	PZ series
	A Board (or D board)	PX series

## &lt;How to enter the Test Pattern&gt;

1. While pressing "VOLUME-" button of the TV set, press "RECALL" button of the remote control three times within 2 seconds.
2. Push button "1" of Remote Controller several times, and select "OPTION" setting.
3. Press "OK" button of Remote controller for three seconds or more to place the unit in the test pattern.

## &lt;Test Pattern (Normal)&gt;



## &lt;Test Pattern (Abnormal)&gt;

Example Picture



## &lt;Purpose&gt;

In case of No picture problem (Sound OK), the defective board is mainly DG (A) or D board. But in this case, Test Pattern isn't useful for diagnosis. Because, this symptom can not display OSD and not enter to the Service Mode. This method is possible to judge the defective board in this symptom.

## &lt;Model&gt;

All Models

## &lt;Symptom&gt;

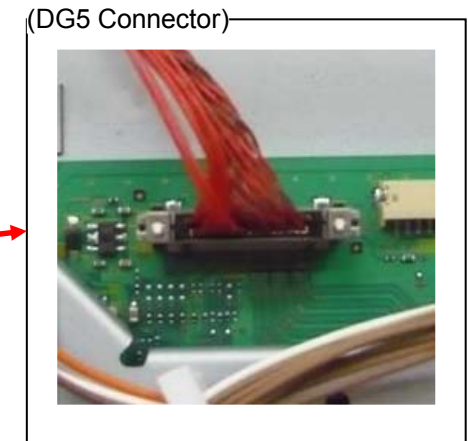
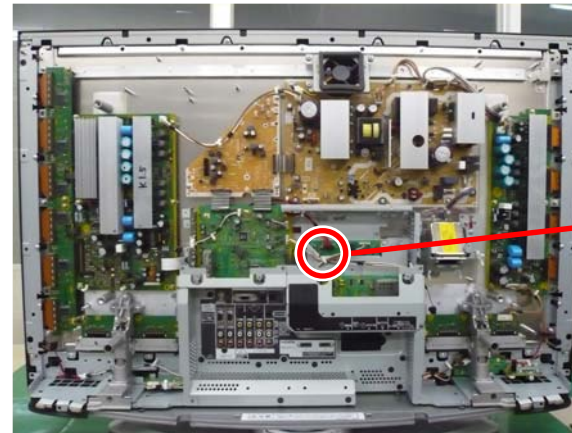
No picture (Sound OK)

## &lt;Diagnosis&gt;

Power ON after removing DG5 Connector

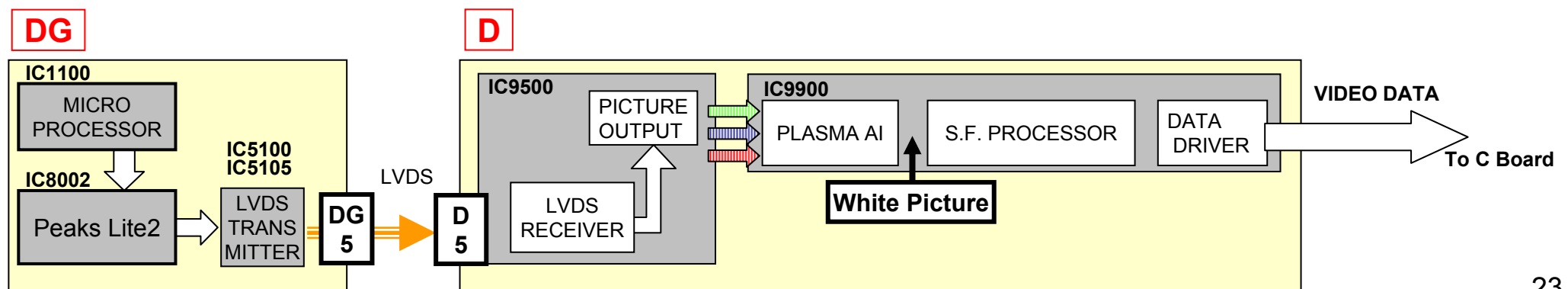
Pattern	Defective Board	
White Picture	DG Board (D board)	PZ series
	A Board (D board)	PX series
No Picture	D board (SC or SS)	

## &lt;Connector Position&gt;

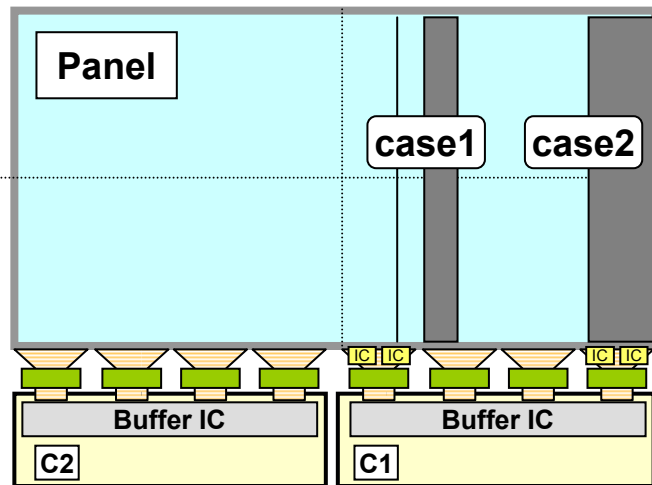


## &lt;Block Diagram and Explanation&gt;

1. This white pattern is generated by IC9900 on D board.
2. When Power ON after removing DG5 (A5) connector, white picture is provided to panel drive circuit. Then, white picture automatically appears in normal situation.



## NG Area (Front view)



case1

Thin vertical line  
or 1 block no lighting

PDP panel (Driver IC) NG  
( or D board or C board )

1 Line

1 Block

PDP Panel

~~Driver IC~~~~Driver IC~~

FPC

C Board

Buffer

D Board

Drive  
IC(2)  
inside

case2

A number of blocks  
no lighting

D board ( or C board) NG

2 Blocks

PDP Panel

Driver IC

Driver IC

FPC

C Board

~~Buffer~~

or

~~D board~~

Note	
------	--

**Panasonic®**